WHAT IS CLAIMED IS:

substrates, comprising:

1. A method for driving an electrophoretic display (EPD), wherein the
EPD comprises two opposite substrates each has electrodes, fluid between the
two substrates, colored charged particles suspended in the fluid and reflective
and transmissive areas defined on one of the two substrates or on the two

applying positive and negative electric potentials respectively to the electrodes to collect the colored charged particles to the reflective or transmissive areas to control whether front light is reflected by the reflective areas or whether backlight passes through the two substrates.

2. The method as claimed in claim 1, wherein the two opposite substrate are named a first substrate and a second substrates and each substrate has an inner face and outer face, wherein the electrodes formed on the inner face of the first substrate are first electrodes and the electrodes formed on the inner face of the second substrate are second electrodes, comprising:

applying the positive or negative electric potential to the first electrodes to collect the colored charged particles on the first electrodes defined the reflective areas to control whether the front light radiated to the first substrate is reflected by the reflective areas or not.

3. The method as claimed in claim 1, wherein the two opposite substrate are named a first substrate and a second substrates and each substrate has an inner face and outer face, wherein the electrodes formed on the inner face of the first substrate are first electrodes and the electrodes formed on the inner face of the second substrate are second electrodes, comprising:

the transmissive areas defined on the second substrate by the second electrodes, whereby adding the positive or negative electric potential to the second electrodes collects the colored charged particles on the transmissive areas to whether the backlight passes through the transmissive areas.

- 4. The method as claimed in claim 3, further comprising forming third electrodes that are respectively formed on the corresponding transmissive areas of the second substrate, wherein applying the negative or positive electric potential to the second or third electrodes to control whether the colored charged particles are collected to the second or third electrodes or not.
- 5. The method as claimed in claim 4, wherein each third electrode is a reflective electrode having a transmissive area that is corresponding to the transmissive area on the second substrate.
- 6. The method as claimed in claim 4, wherein each third electrode is a transparent electrode as a transmissive area, wherein applying the positive or negative electric potential to the third electrode to control whether the colored charged particles collect to the third electrode or not.
- 7. The method as claimed in claim 2, further comprising forming third electrodes on the transmissive areas that are defined on the first substrate by the first electrodes, whereby the positive or negative electric potential is applied to the third electrodes to control whether the colored charged particles collect to the third electrodes or not.
- 8. The method as claimed in claim 3 further comprising adding a reflective layer between the second electrodes and the second substrate.
 - 9. The method as claimed in claim 8, wherein the reflective layer

- further has an upper face and a transmissive area that is corresponding to the
- transmissive area on the second substrate, wherein the upper face is processed
- to be a diffusive or random wave shaped to provide a light scattering capability.
- 4 10. The method as claimed in claim 1 wherein the colored charged
- 5 particles are composed of microcapsules each has a transparent capsule,
- 6 negatively and positively charged colored particles in the transparent capsule
- 7 and a clear or colored fluid is in the transparent capsule.
- 8 11. The method as claimed in claim 1 wherein the colored charged
- 9 particles are composed of rollers each has two colored hemispheres that
- respectively have a positive electric charge and a negative electric charge.
- 12. An electrophoretic display (EPD), comprising:
- two opposite substrates with electrodes;
- colored charged particles are between the two opposite substrates; and
- reflective and transmissive areas are defined on one of the two opposite
- substrates or both of them by the electrodes, wherein some of the electrodes are
- 16 corresponding to the transmissive areas.
- 17 13. The EPD as claimed in claim 12, wherein the two opposite
- substrate are named a first substrate and a second substrates each has an inner
- 19 face and an outer face, wherein the two inner faces are faced each other and the
- 20 electrodes are formed on the inner face of the first substrate are first electrodes
- and the electrodes are formed on the inner face of the second substrate are
- 22 second electrodes.
- 23 14. The EPD as claimed in claim 13, further comprising two opposite
- 24 walls each is formed on two opposite sides of each second electrode and is

- 1 higher than the second electrode.
- 2 15. The EPD as claimed in claim 12, wherein the transmissive or
- 3 reflective areas are defined on the opposite substrates and the some electrodes
- 4 are formed on the corresponding areas.
- 5 16. The EPD as claimed in claim 13, further comprising a reflective
- 6 layer that is formed between the second electrodes and the second substrate and
- has an upper face and a transmissive area that is corresponding to the
- 8 transmitting area on the first substrate, wherein the upper face is processed to a
- 9 diffusive or random wave shaped to provide a light scattering capability.
- 17. The EPD as claimed in claim 12, wherein the colored charged
- particles are composed of microcapsules each has a transparent capsule,
- negatively and positively charged colored particles in the transparent capsule
- and a clear or colored fluid is the capsule.
- 18. The EPD as claimed in claim 12, wherein the colored charged
- particles are composed of rollers each has two colored hemispheres that
- respectively have a positive electric charge and a negative electric charge.
- 17 19. The EPD as claimed in claim 12, wherein the colored charged
- particles are single color and have positively charge or negatively charge.
- 19 20. The EPD as claimed in claim 13, wherein each first electrode is
- 20 covered one whole pixel area of the first electrode and each second electrode
- 21 has at least two second electrode layers.
- 21. The EPD as claimed in claim 13, wherein each first electrode has at
- least one first electrode layer and each second electrode is covered one whole
- 24 pixel area of the second substrate.

- 1 22. The EPD as claimed in claim 13, further comprising a backlit
- 2 module that is mounted on the outer face of the second substrate.
- 3 23. The EPD as claimed in claim 13, further comprising a front light
- 4 module that is mounted on the outer face of the first substrate.
- 5 24. The EPD as claimed in claim 13, wherein the first and second
- 6 substrates are made of the glass, plastic or stainless steel material.
- 7 25. The EPD as claimed in claim 12, wherein the some of the
- 8 electrodes are driven by a static driving circuit.
- 9 26. The EPD as claimed in claim 12, wherein the some of the
- electrodes are driven by an active driving circuit.